

Patent claims

1. A soldered heat exchanger, in particular a condenser for motor vehicles, with at least one manifold (3) and a flange (5) which is secured to the manifold (3) and is intended for receiving connecting tubes (6, 7), it being possible for the flange (5) to be fixed and soldered on the manifold (3) by at least one holder (15, 16).
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2. The heat exchanger as claimed in claim 1, characterized in that the flange (5) is arranged laterally offset with respect to the manifold (3).
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3. The heat exchanger as claimed in claim 1 or 2, characterized in that the at least one holder (15, 16) is secured to the manifold (3), in particular caulked, and has a laterally protruding holding arm (15a, 16a).
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4. The heat exchanger as claimed in claim 3, characterized in that the flange (5) has at least one holding attachment (13, 14) with a holding and guiding groove (13a, 14a), which receives the holding arm (15, 16).
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5. The heat exchanger as claimed in one of claims 1 to 4, characterized in that the connecting tubes (6, 7) can be inserted on the one hand into the manifold (3) and on the other hand into the flange (5) and can be soldered.
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6. The heat exchanger as claimed in one of claims 1 to 5, characterized in that the flange (5) has two holding attachments (13, 14) and is connected to the manifold (3) by means of two holders (15, 16) arranged parallel to one another.
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7. The heat exchanger as claimed in one of claims 1 to 6, characterized in that the flange (5) has a connection face (21) and the heat exchanger has an end face (2a) and in that the connection face (21) and the end face (2a) are arranged approximately parallel to one another.
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8. The heat exchanger as claimed in claim 7, characterized in that the flange (5) has two connection openings (9, 10), which are arranged next to one another in the connection face (21).
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9. The heat exchanger as claimed in one of claims 1 to 8, characterized in that the flange (5) can be produced as a blank by extrusion or extrusion molding.
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10. The heat exchanger as claimed in one of claims 1 to 8, characterized in that the flange (5) can be produced as a blank by casting or drop-forging (pressing).
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11. The heat exchanger as claimed in one of claims 1 to 10, characterized in that the heat exchanger, in particular condenser (1), has a block (2) comprising tubes and fins and in that the heat exchanger (1) can be soldered in its complete form with manifolds (3, 4), connecting tubes (6, 7), holders (13, 16) and flange (5).
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